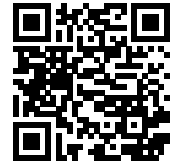


ZK7958-3671-0xxx | Motor cable, IP67, (4 G 1.0 mm²+(2 x 0.75 mm²)+(2 x AWG22)), PUR, orange, drag-chain suitable



B17, plug, straight, male+male, pins 3+PE+2+2 – itec[®] (Series 915), plug,
straight, female, Power: 3+PE, Signal: 5



Plugs

Electrical data	Head A	Head B
Rated voltage (power)	630 V AC / 850 V DC, 600V AC / DC (UL)	630 V AC/DC
Rated voltage (signal/24V)	-	63 V AC/DC
Rated current (power)	14 A + 10 A at 40 °C	14 A
Rated current (signal/24V)	-	3.6 A
Rated current (DSL)	4 A at 40 °C	-
Rated impulse voltage (power)	6.0 kV	6.0 kV
Rated impulse voltage (signal/24V)	-	1.5 kV
Rated impulse voltage (Ethernet)	1.0 kV	-
Rated impulse voltage (DSL)	50 V	-
Contact resistance	< 10 mΩ (signal), < 5 mΩ (power)	< 5 mΩ
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	-
Mechanical data		

Accessories type	-	Connectors/Cables
Installation size	B17	itec® (Series 915)
Connector type	plug	plug
Configuration	straight	straight
Contact type	male+male	female
Number of positions (face)	pins 3+PE+2+2	Power: 3+PE, Signal: 5
Mechanical coding	key 3 (user-defined voltage)	-
Wire termination	crimp connection	crimp connection
Mating cycles	≥ 100	500
Way of locking	bayonet	bayonet
Weight per piece	-	0.035 kg (0.0772 lb)
Body color	metal	black, similar to RAL 9011
Body material	-	zinc diecast/plastic
Coupling nut material	GD-Zn, Ni	-
Seal	NBR, FPM	FKM
Clamp ring	-	brass/nickel plated
Contact carrier material	PA 6, UL 94 V0	PBT, PA, UL 94 V-0
Contact carrier color (Ethernet)	red	-
Contact carrier color (power)	red	-
Contact plating	Au over Ni	-
Contact material	copper alloy	brass/gold plated
Environmental data		
Special features	-	Max. height for operation 2000 m
Shock resistance	50 g (490 m/s ²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axes	30 g (conforms to EN 60060-2-27), 11 ms; 18 shocks per direction, 3 axes
Vibration resistance	5 g (50 m/s ²) conforms to IEC 60512-6d, 10 Hz ... 500 Hz; 10 cycles per axis; 6 h full duration	10 g (conforms to EN 60068-2-27), 50 Hz...2000 Hz; 1 Octave/min.; 10 cycles per axis
Ambient temperature (operation)	-30...+80°C, -22...+176°F	-20...+130°C, -4...+266°F
Protection rating	IP65/67 in screwed condition (according to IEC 60529)	IP66/67 in screwed condition
Pollution level	3/2 (according to IEC 60664-1)	3 (according to VDE 0110/EN61984 part 6.19.2.2)
Overvoltage category	-	3 (according to VDE 0110/EN61984 part 6.19.2.2)

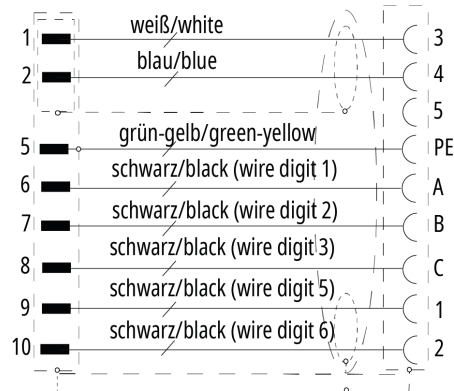
Cable

Electrical data

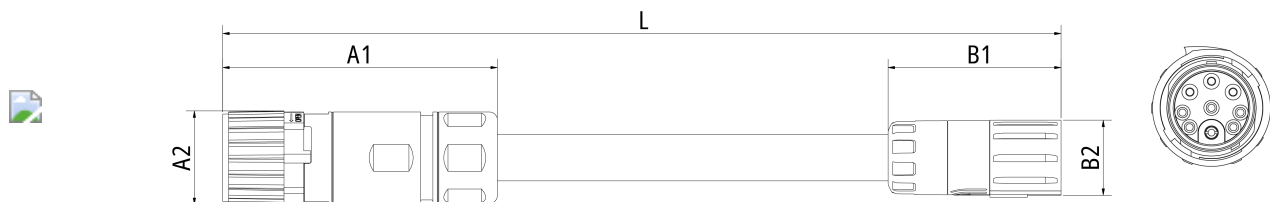
Operating voltage	max. 1000 V AC (UL), U _o /U 600/1000 V (VDE)
Insulation resistance	≥ 500 MΩ * km (DIN EN 50395)
Mutual capacitance	Signal: 45 ± 15 pF/m, Power: 90 pF/m (at 800 Hz according to EN 50289-1-5)
Wire resistance (power)	≤ 19.5 Ω/km (DIN EN 50395)
Wire resistance (signal/24V)	≤ 55.0 Ω/km (DIN EN 50395)
Wire resistance (brake)	≤ 26.0 Ω/km (DIN EN 50395)
Characteristic impedance	Signal: 110 Ω ± 10 Ω (10 MHz) acc. to EN50289-1-11
Dielectric strength wire/wire (power)	4 kV 50 Hz 5 min. (DIN VDE 0472 T.509C)
Dielectric strength wire/shield (power)	4 kV 50 Hz 5 min. (DIN VDE 0472 T.509C)
Dielectric strength wire/wire (signal/24V)	3 kV 50 Hz 1 min. (DIN VDE 0472 T.509C)
Dielectric strength wire/shield (signal/24V)	3 kV 50 Hz 1 min. (DIN VDE 0472 T.509C)
Mechanical data	
Cross-section (power)	1.00 mm ² (approx. AWG18)
Cross-section (signal)	AWG22 (approx. 0.34 mm ²)
Cross-section (brake)	0.75 mm ² (AWG18)
Outer cable diameter	11.6 mm ± 0.4 mm (0.4567" ± 0.0157")
Min. bending radius, moved in drag-chain	7 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Weight	215 kg/km (144.459 lb/1000 ft)
Conductor material	copper bare
Optical covering factor of shielding	≥ 85%
Use	drag-chain suitable
Max. acceleration	30 m/s ² by 5 m travel distance 15 m/s ² by 10 m travel distance 5 m/s ² by 20 m travel distance
Max. speed	4 m/s
Max. travel distance	20 m (horizontal) 5 m (vertical)
Max. number of cycles	5 million
Jacket color	orange
Material jacket	TPU (thermoplastic polyurethane)
Wire insulation material	PP (polypropylene)
Printing on the jacket	Beckhoff Automation GmbH & Co. KG - D - Verl - 4G1 + (2x0.75)/C + (2xAWG22)/C C E170315 cURus AWM Style 21223 AWM I/II A/B 80°C 1000V FT1 MM/JJ - Desina -
Printing color	black
Torsion angle in °/m	max. ± 30 °/m
Max. tensile load, dynamic	20 N/mm ²

Max. tensile load, static	50 N/mm ²
Environmental data	
Operation temperature range, moved	-20...+80°C, -4...+176°F. In drag-chain with mechanical strain: -20...+60°C, -4...+140°F
Operation temperature range, fixed installation	-40...+80°C, -40...+176°F
UV resistance	UV resistance of the outer jacket referred to DIN EN ISO 4892-2
Oil resistance	according to DIN EN 60811-404, HD22.10 appendix A
Flame-retardant	according to IEC 60332-1-2 UL758 cable flame test
CFC-free	yes
Halogen-free	according to DIN VDE 0472 Teil 815
Silicone-free	yes
RoHS compliant	yes
UL	yes, UL E-file number: E170315
Approvals	UL758 (AWM) Style 21223 (jacket) and Style 10492 (core)

Contact assembly



Dimensions



B1	44.00 mm
B2	19.00 mm

Notes

- Depending on the cable length (L), the following length tolerances apply:
 0 m...3.0 m: + 100 mm | 3.0...10.0 m: ± 100 mm | ≥ 10.0 m: ± 2%

- Illustrations similar
- Further cable length on request. The last three digits of the ordering information is the cable length in decimeters, e.g. ZKxxxx-xxx-x020 = cable length 2.00 m
- B17 3-pin 1.5 mm² and B17 3 3-pin 2.5 mm² are not pin compatible

CE, UL	
CE	yes

Ordering information	Length
ZK7958-3671-0010	1.00 m
ZK7958-3671-0020	2.00 m
ZK7958-3671-0030	3.00 m
ZK7958-3671-0040	4.00 m
ZK7958-3671-0050	5.00 m
ZK7958-3671-0060	6.00 m
ZK7958-3671-0070	7.00 m
ZK7958-3671-0080	8.00 m
ZK7958-3671-0090	9.00 m
ZK7958-3671-0100	10.00 m
ZK7958-3671-0120	12.00 m
ZK7958-3671-0150	15.00 m
ZK7958-3671-0170	17.00 m
ZK7958-3671-0200	20.00 m

Further length on request

Accessories	
ZS7200-B003	B17 protection cap, plug, plastic, IP67, packaging unit = 10 pieces, including loss protection
ZS7200-B004	B17 protection cap, plug, metal, IP67, packaging unit = 5 pieces, including loss protection
ZS7200-B005	B17 color coding connector/square flange, red, packaging unit = 10 pieces
ZB8802-0002	assembly tool for B17 connector, AF22
ZB8805-0001	Flange/Panel feed-through for B17 pre-assembled, for fixing the connector, plastic, including screws, washers and lock nuts
ZS7200-B016	B17 color coding connector/square flange, gray, packaging unit = 10 pieces
ZS7200-B015	B17 color coding connector/square flange, orange, packaging unit = 10 pieces
ZS7200-B007	B17 color coding connector/square flange, blue, packaging unit = 10 pieces
ZS7200-B006	B17 color coding connector/square flange, yellow, packaging unit = 10 pieces
ZS7200-B008	B17 color coding connector/square flange, green, packaging unit = 10 pieces



Products marked with a crossed-out wheeled bin shall not be discarded with the normal waste stream. The device is considered as waste electrical and electronic equipment. The national regulations for the disposal of waste electrical and electronic equipment must be observed.

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